

DERWENT-ACC-NO: 1996-233039

DERWENT-WEEK: 199624

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TITLE: Aq. lysozyme soln. free of toxic cpds., esp. from
avidin

- and boosted by L-glutamic acid

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PATENT-FAMILY:

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APPLICATION-DATA:

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INT-CL (IPC): A61K035/12, A61K035/54 , A61K035/78 ,
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ABSTRACTED-PUB-NO: HU 210333B

BASIC-ABSTRACT:

Aq. lysozyme soln. contg. 2-50 mg/l lysozyme, free from cpds. injurious to health (esp. avidin) and with pH 4.5, is new. The specific activity of lysozyme in the soln. is 25000-27000 Shugar units/mg and the lysozyme solns. are prepd. from various sources of protein, frequently from egg-whites, by an acid treatment as follows: the protein source pH is set to 4-5 by a food quality acid (i.e. citric, malic, acetic, or ascorbic) then the mixt. is incubated for 2-24 hrs. at 2-4 deg.C temp. while the pH is readjusted to its previous value. The lysozyme contg. supernatant is sepd. from the ppte. (which contains by-prods) and heat treated at 40-60 deg.C for 5-30 mins. If the heat treated soln. contains avidin, the avidin is inactivated by exposing a at most 1 cm layer of the soln. to natural light, the pptd. by-prods. are then removed from the lysozyme soln. and the pH of the soln. is set to pH 4.5. All prepn. stages are carried out under sterile conditions and the lysozyme activity is boosted by pH-stabilising L-glutamic acid which is added in the following molar proportion: 1:09-1:1.1.

USE - Lysozyme which has been boosted by L-glutamic acid can be formulated into e.g. tablets, salves, sprays or chewing gum and used e.g. against upper respiratory tract infections and buccal ulcers, following surgical interventions and to counteract inflammation or plaque. (Reissue of the entry advised in week 9536 based on complete specification).

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: AQUEOUS LYSOZYME SOLUTION FREE TOXIC
COMPOUND AVIDIN BOOST
GLUTAMIC ACID

DERWENT-CLASS: B04 D16

CPI-CODES: B04-L05B; D05-H; D05-H13;

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